

## IMAGE DIVIDING FILM FOR PHOTO OR THE LIKE

### BACKGROUND OF THE INVENTION

Output paper or films on the market at present has disadvantage that in the case of making a visiting card or the like smaller than the original output size, in the case of making multi-print and cutting off the same, or in the case of overall coat printing, generally the prints are cut off by a cutter or scissors, or previously the paper or films are perforated to be separated after printing, which causes the trouble of using tools or a mistake in cutting, or in the case of a perforation, jagged cutoff edges remarkably cause degradation.

### SUMMARY OF THE INVENTION

A resin film integrated with a photo or the like is previously provided with slits, and after receiving an image, the resin film is cut off at the slits to produce very fine and beautiful divided parts. It is possible to divide into parts more simply and finely as compared with the case of dividing photos or the like along a perforation in the past. In some method, an adhesive layer is used in the intermediate portion, and in the other method, an intermediate layer is not used.

## BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a sectional view of an image dividing film according to a first embodiment of the invention;

Fig. 2 is a sectional view of an image dividing film according to a second embodiment of the invention;

Fig. 3 is a perspective view of the image dividing film according to the first embodiment of the invention;

Fig. 4 is a perspective view of the image dividing film according to the second embodiment of the invention;

Fig. 5 is a perspective view of an image dividing film according to a third embodiment of the invention; and

Fig. 6 is a perspective view of an image dividing film according to a fourth embodiment of the invention.

## DESCRIPTION OF PREFERRED EMBODIMENTS

This invention relates to paper or a film for printing output which may simplify various type of cutting off for various cards such as a visiting card or various sizes of photos and very finely achieve cutting off after prints are output from a digital camera or a photo CD.

In the drawings, the reference numeral 1 designates paper or a plastic film with an image receiving layer coat, 2 an adhesive layer, 3 a resin film to be divided, 4 a slit, 5 a cutter, 6 an image, 7 an edge part, 8 an image receiving layer, and 9 a reinforcement paper or plastic film layer.

A first embodiment of the invention is shown in Figs. 1 and 3.

According to the invention, the resin film 3 to be divided is as a base, an image receiving coat 8 suitable for each printer is applied to one side or both sides thereof, and a slit 4 of each size depending on purpose is previously made in either the surface or the back surface by the cutter 5. A user purchases such slit film, and after purchasing, the user prints images, characters or the like thereon according to a cutoff size, bends the film upward or downward along the slit, and then cuts off by utilizing its property of splitting along the slit of the resin film to be divided.

As the stage of manufacture, a white coat or a mat coat is previously applied as needed to one side or both sides of a resin film to be divided as a base according to purpose, subsequently an image receiving coat 8 suitable for a printer is applied thereto, and a slit 4 is made in one side or both sides according to each intended size.

As shown in Fig. 3, at the time of separating images or characters into four faces, previously four longitudinal and four horizontal slits are made inside the portions corresponding to the image 6 of four faces, and after the image portions are printed out, dividing can be finely achieved along the slits.

A second embodiment will now be described with

reference to Figs. 2 and 4.

An adhesive layer 2 is provided on the lower side of paper or a plastic film 1 with image receiving layer coat, and a resin film 3 to be divided is provided under the adhesive layer 2 to form a three-layer structure. As shown in Fig. 4, in the case of cutting away image portions of four faces, previously four longitudinal slits 4 and four horizontal slits 4 are made by a cutter.

The slits 4 completely divide the paper or plastic film 1 with image receiving layer coat and further partially divide an upper part of the lowermost resin film 3 to be divided.

The depth, groove width and shape of each slit vary depending on the thickness of the resin film to be divided.

When a user performs printing-out according to the image portions of the paper or plastic film 1 with image receiving layer coat and bends the print several times as in the perforation heretofore in use, the resin film to be divided can be well divided at the slits in its property to accomplish fine separation.

In the drawings, the reference numeral 7 designates the useless edge parts to be thrown away.

A third embodiment will now be described.

As shown in Fig. 5, the surface of a resin film to be divided opposite to the surface thereof applied with the image receiving layer coat 8 is provided with many fine slits as

ruled into squares.

A user prints out characters or images on the image receiving layer coat 8 surface in a desired assembling manner with desired dimension, and the slit portion nearest a position desired to be cut off by the user is bent upward and downward as in the perforation heretofore in use to finely accomplish dividing.

A fourth embodiment will now be described.

As shown in Fig. 6, the surface of a resin film to be divided opposite to the surface thereof applied with an image receiving layer coat 8 is laminated with paper, or a plastic film 9 for reduction of cost and reinforcement.

Further, similarly to the second embodiment, an adhesive layer is provided in the intermediate part.

The surface laminated with paper or a plastic film and the adhesive layer 2 are completely divided, and similarly to the third embodiment, many fine slits 4 as ruled into squares are made in a portion of the resin film to be divided.

Similarly to the third embodiment, a user prints out images or characters on the image receiving layer coat 8 surface in a free assembling manner with desired dimension, and the slit portion nearest a position desired to be cut off by the user is bent upward and downward as in the perforation heretofore in use to finely accomplish dividing.

#### INDUSTRIAL APPLICABILITY

Although in a conventional method of dividing at the perforation, a cut end is bad, in the methods described above, dividing can be accomplished beautifully and finely, so the invention is of very high utility value.

That is, when dividing is performed according to these four methods, the photos can be divided finely in the property of the resin film to be divided, so that the value of merchandise is very heightened.